

**IOWA DEPARTMENT OF NATURAL RESOURCES
WATER SUPPLY SECTION
CONSTRUCTION PERMIT APPLICATION**

SCHEDULE-13d, Fluoridation

| | |
|---------------|------------------|
| Date Prepared | Project Identity |
| Date Revised | |

1. Design Data

a. Empirical formula of fluoride compound: _____

b. Purity of fluoride compound: _____ %; Available fluoride ion _____ %

c. Liquid, granular or powdered fluoride: _____

d. Type of feeder: _____

e. Fluoride content of untreated water: _____ mg/l

f. Design fluoride application rate: _____

g. Maximum feed rate: _____ gal/day

h. Range of feed adjustment: _____ ; Feeder Accuracy: _____

i. Describe the fluoride feeder control system: _____

2. What precautions have been taken to protect the operator and plant facilities against the corrosive atmosphere of fluoride gases & dust?

3. For the following, reference the page of the plans or specifications where the description can be found.

| Materials and Construction Details | Plan or Specification Page Number |
|------------------------------------|-----------------------------------|
| Solution Tank | |
| Mechanical Mixer | |
| Liquid Level Indicator | |
| Weighing Scale | |
| Antisiphon Device | |
| Chemical Feed Line | |
| Protective Equipment | |
| Fluoride Test Equipment | |

4. If a fluoride saturator is provided: N/A ☐

a. Is it equipped with a float control and water meter on the water service line? Yes ☐ No ☐

b. Type of backflow prevention device on the water service line: _____

5. Briefly describe specified procedures for transferring fluoride acid from drum to solution tank: N/A ☐

spec. page no. _____

6. Cross connection control at the solution tanks is provided by: _____

spec. page no. _____

7. How and where will the fluoride chemical be stored so that it will not be accessible to the public or misidentified with other chemicals?
